

CS 150 Quiz 1 practice questions 2/10/20

1. Some comments start with #. What are these called and what are they used for?
2. Some comments are enclosed in """. What are these called and what are they used for?
3. Evaluate these Python expressions, making sure your answers indicate the correct type (e.g., integer, float, or string):

9 * 2.0 - 3 _____

"abc" + "xyz" _____

-15 // 4 _____

4. The following program is supposed to calculate and print the length of the hypotenuse of a right triangle with sides of length 3 and 4. The program has one Python syntax error, one Python runtime error and one logical error (i.e., with just this error the program would successfully run but would produce an incorrect result). Circle and clearly fix the errors.

```
# Take the sqrt of a number
def my_sqrt(x):
    return x ** (1//2)

# Calculate the length of the hypotenuse of a right triangle
def hypotenuse(a, b)
    sum = a**2 + b**2
    return my_sqrt(sum)

print("If a is 3 and b is 4 then the hypotenuse is " + hypotenuse(3,4))
```

5. Write a function that computes the distance between two points. The parameters should be x1, y1, x2, y2 for the x and y coordinates of the two points. Return the distance as a float. For example:

```
>>> distance(2,4,14,9)
13.0
```